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## (54) ANTENNA SYSTEM FOR MOBILE RADIO BASE STATION

### (57)Abstract:

PURPOSE: To obtain the mobile radio base station antenna system able to sent/ receive a signal to/from plural mobile stations efficiently in which a mobile station is traced efficiently.

CONSTITUTION: Only a specific mobile station makes transmission reception for each time slot set by a TDMA timing control section 5. As an antenna used for transmission reception, a directivity antenna 1a whose reception electric field strength is maximized among plural directivity antennas 1 based on the comparison of reception electric field strength by a level comparator section 4 is selected by a changeover switch 7.

Moreover, the movement of a mobile station is traced by comparing the reception electric field strength of the directivity antenna 1a whose reception electric field strength is maximized and directivity antennas 1b, 1c aside the directivity antenna 1a whose transmission reception range takes radiation pattern.

